RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:

Source:

Date Processed by STIC:

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial	Number: 10/5/8, 7/0	CRF Edit Date: 45 Edited by: 2
	Realigned nucleic acid/amino acid numbers/text text "wrapped" to the next line	in cases where the sequence
	Corrected the SEQ ID NO. Sequence numbers e	edited were:
	Inserted or corrected a nucleic number at the en NO's edited:	d of a nucleic line. SEQ ID
	Deleted: invalid beginning/end-of-file text;	page numbers
	Inserted mandatory headings/numeric identifier	s, specifically:
	Moved responses to same line as heading/numer	ic identifier, specifically:
<u>i</u>	Other: Orrected Amim Ac For seg 10#3.	id numbering,

Revised 09/09/2003



PCT

RAW SEQUENCE LISTING DATE: 04/05/2006
PATENT APPLICATION: US/10/518,710 TIME: 10:29:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\04042006\J518710.raw

```
3 <110> APPLICANT: Tomizawa, Kazuhito
            Matsui, Hideki
     6 <120> TITLE OF INVENTION: Inhibitor of constitutive active forming of carcineurin
     8 <130> FILE REFERENCE: JP-13650
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/518,710
C--> 10 <141> CURRENT FILING DATE: 2004-12-22
     10 <160> NUMBER OF SEQ ID NOS: 6
    13 <210> SEQ ID NO: 1
    14 <211> LENGTH: 16
    15 <212> TYPE: PRT
    16 <213> ORGANISM: human
    18 <400> SEQUENCE: 1
    19 Phe Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys
    23 <210> SEQ ID NO: 2
    24 <211> LENGTH: 17
    25 <212> TYPE: PRT
    26 <213> ORGANISM: human
    28 <400> SEQUENCE: 2
    29 Arg Glu Glu Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr
    30 1
                         5
    32 Gly
    35 <210> SEQ ID NO: 3
    36 <211> LENGTH: 521
    37 <212> TYPE: PRT
    38 <213> ORGANISM: human
    40 <400> SEQUENCE: 3
    41 Met Ser Glu Pro Lys Ala Ile Asp Pro Lys Leu Ser Thr Thr Asp Arg
    44 Val Val Lys Ala Val Pro Phe Pro Pro Ser His Arg Leu Thr Ala Lys
                    20
                                        25
    47 Glu Val Phe Asp Asn Asp Gly Lys Pro Arg Val Asp Ile Leu Lys Ala
    50 His Leu Met Lys Glu Gly Arg Leu Glu Glu Ser Val Ala Leu Arg Ile
    53 Ile Thr Glu Gly Ala Ser Ile Leu Arg Gln Glu Lys Asn Leu Leu Asp
                            70
                                                75
    56 Ile Asp Ala Pro Val Thr Val Cys Gly Asp Ile His Gly Gln Phe Phe
                        85
    59 Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ala Asn Thr Arg
    60 100
                                       105
    62 Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr Phe Ser Ile Glu
    63 115
                                  120
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RAW SEQUENCE LISTING DATE: 04/05/2006
PATENT APPLICATION: US/10/518,710 TIME: 10:29:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\04042006\J518710.raw

65 Cys Val Leu Tyr Leu Trp Ala Leu Lys Ile Leu Tyr Pro Lys Thr Leu 130 135 68 Phe Leu Leu Arg Gly Asn His Glu Cys Arg His Leu Thr Glu Tyr Phe 155 71 Thr Phe Lys Gln Glu Cys Lys Ile Lys Tyr Ser Glu Arg Val Tyr Asp 165 170 74 Ala Cys Met Asp Ala Phe Asp Cys Leu Pro Leu Ala Ala Leu Met Asn 180 185 77 Gln Gln Phe Leu Cys Val His Gly Gly Leu Ser Pro Glu Ile Asn Thr 195 200 80 Leu Asp Asp Ile Arg Lys Leu Asp Arg Phe Lys Glu Pro Pro Ala Tyr 215 220 83 Gly Pro Met Cys Asp Ile Leu Trp Ser Asp Pro Leu Glu Asp Phe Gly 230 86 Asn Glu Lys Thr Gln Glu His Phe Thr His Asn Thr Val Arg Gly Cys 245 250 89 Ser Tyr Phe Tyr Ser Tyr Pro Ala Val Cys Asp Phe Leu Gln His Asn 260 265 92 Asn Leu Leu Ser Ile Leu Arg Ala His Glu Ala Gln Asp Ala Gly Tyr 280 95 Arg Met Tyr Arg Lys Ser Gln Thr Thr Gly Phe Pro Ser Leu Ile Thr 295 98 Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Ala Ala 310 315 101 Val Leu Lys Tyr Glu Asn Asn Val Met Asn Ile Arg Gln Phe Asn Cys 325 330 104 Ser Pro His Pro Tyr Trp Leu Pro Asn Phe Met Asp Val Phe Thr Trp 340 345 107 Ser Leu Pro Phe Val Gly Glu Lys Val Thr Glu Met Leu Val Asn Val 360 110 Leu Asn Ile Cys Ser Asp Asp Glu Leu Gly Ser Glu Glu Asp Gly Phe 375 113 Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys Ile 116 Arg Ala Ile Gly Lys Met Ala Arg Val Phe Ser Val Leu Arg Glu Glu 117 405 410 119 Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly Met Leu 425 122 Pro Ser Gly Val Leu Ser Gly Gly Lys Gln Thr Leu Gln Ser Ala Thr 123 435 440 125 Val Glu Ala Ile Glu Ala Asp Glu Ala Ile Lys Gly Phe Ser Pro Gln 455 460 128 His Lys Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile Asn 470 475 131 Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro Ser Asp Ala Asn Leu 485 490 134 Asn Ser Ile Asn Lys Ala Leu Ala Ser Glu Thr Asn Gly Thr Asp Ser 500 137 Asn Gly Ser Asn Ser Ser Asn Ile Gln

RAW SEQUENCE LISTING DATE: 04/05/2006
PATENT APPLICATION: US/10/518,710 TIME: 10:29:39

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\04042006\J518710.raw

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515
                              520
141 <210> SEQ ID NO: 4
142 <211> LENGTH: 11
143 <212> TYPE: PRT
144 <213> ORGANISM: HIV virus
146 <400> SEQUENCE: 4
147 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg
148 1 5
151 <210> SEQ ID NO: 5
152 <211> LENGTH: 26
153 <212> TYPE: PRT
154 <213> ORGANISM: human
156 <400> SEQUENCE: 5
157 Arg Arg Arg Arg Arg Arg Arg Arg Arg Phe Asp Gly Ala Thr Ala
                   5
160 Ala Ala Arg Lys Glu Val Ile Arg Asn Lys
161
                20
164 <210> SEQ ID NO: 6
165 <211> LENGTH: 27
166 <212> TYPE: PRT
167 <213> ORGANISM: human
169 <400> SEQUENCE: 6
170 Arg Arg Arg Arg Arg Arg Arg Arg Arg Glu Glu Ser Glu Ser
173 Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly
174
                20
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VERIFICATION SUMMARY DATE: 04/05/2006 PATENT APPLICATION: US/10/518,710 TIME: 10:29:40

Input Set : A:\pto.kd.txt

Output Set: N:\CRF4\04042006\J518710.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing (for reference only)



PCT

RAW SEQUENCE LISTING DATE: 03/31/2006
PATENT APPLICATION: US/10/518,710 TIME: 15:28:28

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\03312006\J518710.raw

3 <110> APPLICANT: Tomizawa, Kazuhito

4 Matsui, Hideki

6 <120> TITLE OF INVENTION: Inhibitor of constitutive active forming of carcineurin

8 <130> FILE REFERENCE: JP-13650

C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/518,710

C--> 10 <141> CURRENT FILING DATE: 2004-12-22

10 <160> NUMBER OF SEQ ID NOS: 6

ERRORED SEQUENCES

35 <210> SEQ ID NO: 3 36 <211> LENGTH: 521

37 <212> TYPE: PRT

38 <213> ORGANISM: human

40 <400> SEQUENCE: 3

41 Met Ser Glu Pro Lys Ala Ile Asp Pro Lys Leu Ser Thr Thr Asp Arg
42 1 5 10 15
44 Val Val Lys Ala Val Pro Phe Pro Pro Ser His Arg Leu Thr Ala Lys

47 Glu Val Phe Asp Asn Asp Gly Lys Pro Arg Val Asp Ile Leu Lys Ala

35 40

50 His Leu Met Lys Glu Gly Arg Leu Glu Glu Ser Val Ala Leu Arg Ile

1 50 55 60

53 Ile Thr Glu Gly Ala Ser Ile Leu Arg Gln Glu Lys Asn Leu Leu Asp 54 65 70 75 80

56 Ile Asp Ala Pro Val Thr Val Cys Gly Asp Ile His Gly Gln Phe Phe

57 85 90 95

59 Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ala Asn Thr Arg 60 100 105 110

62 Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr Phe Ser Ile Glu

63 115 120 125 65 Cys Val Leu Tyr Leu Trp Ala Leu Lys Ile Leu Tyr Pro Lys Thr Leu

66 130 135 140

68 Phe Leu Leu Arg Gly Asn His Glu Cys Arg His Leu Thr Glu Tyr Phe

150 155 160 155 160 155 160 The Dec Cla Cla Cla Cla Lie Lie Lie Tree Con Cla And Vol Tree Add

71 Thr Phe Lys Gln Glu Cys Lys Ile Lys Tyr Ser Glu Arg Val Tyr Asp 72 165 170 175

74 Ala Cys Met Asp Ala Phe Asp Cys Leu Pro Leu Ala Ala Leu Met Asn

75 180 185 190 77 Gln Gln Phe Leu Cys Val His Gly Gly Leu Ser Pro Glu Ile Asn Thr

78 195 200 205

80 Leu Asp Asp Ile Arg Lys Leu Asp Arg Phe Lys Glu Pro Pro Ala Tyr

RAW SEQUENCE LISTING DATE: 03/31/2006 PATENT APPLICATION: US/10/518,710 TIME: 15:28:28

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\03312006\J518710.raw

81	210					215					220				
83 Gly	Pro	Met	Cys	Asp	Ile	Leu	Trp	Ser	asp	Pro	Leu	Glu	Asp	Phe	Gly
84 225			- 2		230					235					240
86 Asn	Glu	Lvs	Thr	Gln		His	Phe	Thr	His	Asn	Thr	Val	Ara	Glv	Cvs
87				245					250				5	255	-2-
89 Ser	Tvr	Phe	Tvr		Tvr	Pro	Ala	Val		Asp	Phe	Leu	Gln		Asn
90	-1-		260		-1-			265	0,70				270		
92 Asn	Leu			Ile	Leu	Ara	Ala		Glu	Ala	Gln	Asp		Glv	Tvr
93		275				3	280		0_0			285		0-1	-1-
95 Arg	Met		Ara	Lvs	Ser	Gln		Thr	Glv	Phe	Pro		Len	Tle	Thr
96	290	-1-	5	-1-		295			0-1		300				
98 Ile		Ser	Ala	Pro	Asn		Leu	Asp	Val	Tvr		Asn	Lvs	Ala	Ala
99 305					310	- 2 -		E		315			-1-		320
101 Val	Leu	Lvs	Tvr	Glu	-	ı Asn	Va]	l Met	: Asr		Arc	Glr	ı Phe	a Asn	
102			4	325					330			,		335	_
104 Sei	Pro	His	Pro			Leu	Pro	Asr	. Phe	Met	Ast	Va]	l Phe		
105			340	_	-			345			-		350		
107 Sei	Leu	Pro	Phe	. Val	. Gly	, Glu	Lys	. Val	Thr	Glu	Met	. Let	ı Val	l Asn	Val
108		355			•		360					365			
110 Let	ı Asn	Ile	Cys	Ser	Asp	Asp	Glu	ı Let	ı Gly	, Ser	Glu	ı Glu	ı Ası	Gly	Phe
111	370		-		_	375			-		380		_	_	
113 Asp	Gly	Ala	Thr	Ala	Ala	. Ala	Arg	J Lys	Glu	ı Val	. Ile	Arg	j Asi	ı Lys	Ile
114 385	5				390)				395	5				400
116 Arg	g Ala	Ile	Gly	Lys	Met	: Ala	Arg	y Val	. Phe	Ser	· Val	Leu	ı Arç	g Glu	ı Glu
117				405	5				410)				415	,
119 Ser	: Glu	Ser	Val	Leu	ı Thr	Leu	Lys	s Gly	Let	ı Thr	Pro	Thr	Gly	/ Met	Leu
120			420					425					430		
122 Pro	Ser	Gly	Val	Leu	ı Ser	Gly	Gl	/ Lys	Glr	Thr	Leu	ı Glr	ı Sei	: Ala	Thr
123		435					440					445			
125 Val			Ile	Glu	ı Ala	Asp	Glu	ı Ala	ılle	Lys	Gly	, Phe	e Sei	r Pro	Gln
126	450					455					460				
128 His		Ile	Thr	Ser			Glu	ı Ala	Lys	_		ı Asp	Arç	j Ile	
129 469					470					475					480
131 Gli	ı Arg	Met	Pro		_	, Arg	Asp	Ala			Ser	: Asp) Ala		
132		_		485					490					495	
134 Asr	ı Ser	Ile			Ala	ı Leu	Ala			Thr	Asr	ı Gly		:	Ser
135	_		500			_		505					510)	
137 Aşr	_	Ser	Asn	Ser		•	Ile	Glr	1						
138 51	5	SIS			520)	$S\omega^{1}$	O							

E-->

DATE: 03/31/2006 VERIFICATION SUMMARY PATENT APPLICATION: US/10/518,710 TIME: 15:28:29

Input Set : A:\Sequence Listing.txt Output Set: N:\CRF4\03312006\J518710.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:138 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3